Name:

at1113exam: Expand, factor, and solve quadratics (v337)

1. Solve the equation.

$$(8x - 3)(5x + 7) \;=\; 0$$

2. Expand the following expression into standard form.

$$(6x + 5)(7x - 2)$$

3. Expand the following expression into standard form.

$$(7x + 6)^2$$

4. Expand the following expression into standard form.

$$(5x + 6)(5x - 6)$$

5. Factor the expression.

$$x^2 + 7x + 12$$

6. Solve the equation.

$$11x^2 - 34x + 29 \;=\; 4x^2 + 2x - 3$$

7. Factor the expression.

$$49x^2 - 25$$

8. Solve the equation with factoring by grouping.

$$12x^2 + 8x + 15x + 10 \;=\; 0$$